Application No.: 09/752145 Docket No.: CPI-013CNDV4RCE

Please amend the above-identified application as follows.

AMENDMENTS TO THE CLAIMS

Please amended claim 1 as set forth in the following listing of claims, which replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A transformed yeast cell containing a first heterologous DNA sequence which codes for a heterologous G protein coupled receptor and a second heterologous DNA sequence which codes for a heterologous G protein α subunit (G_{α}), wherein said first and second heterologous DNA sequences are capable of expression in said cell and such that said heterologous G protein coupled receptor and heterologous G protein α subunit (G_{α}) can operatively associate, and wherein said cell is incapable of expressing an endogenous G protein α -subunit (yeast G_{α}).
- 2. (Original) A transformed yeast cell according to claim 1, wherein said first heterologous DNA sequence is carried by a plasmid.
- 3. (Original) A transformed yeast cell according to claim 1, wherein said second heterologous DNA sequence is carried by a plasmid.
- 4. (Original) A transformed yeast cell according to claim 1, wherein said heterologous G protein α subunit is selected from the group consisting of G_S α subunits, G_L α subunits, G_O α subunits, G_D α subunits, and transducin α subunits.
- 5. (Original) A transformed yeast cell according to claim 1 which expresses a complex of the G protein β subunit and the G protein τ subunit (G_{βτ}).
- 6. (Original) A transformed yeast cell according to claim 5 which expresses endogenous $G_{\beta\tau}$.

Application No.: 09/752145 Docket No.: CPI-013CNDV4RCE

7. (Original) A transformed yeast cell according to claim 1, wherein said first heterologous DNA sequence codes for a heterologous G protein-coupled receptor selected from the group consisting of dopamine receptors, muscarinic cholinergic receptors, α-adrenergic receptors, β-adrenergic receptors, opiate receptors, cannabinoid receptors, and serotonin receptors.

- 8. (Original) A transformed yeast cell according to claim 1 further comprising a third heterologous DNA sequence, wherein said third heterologous DNA sequence comprises a pheromone-responsive promoter and an indicator gene positioned downstream from said pheromone-responsive promoter and operatively associated therewith.
- 9. (Original) A transformed yeast cell according to claim 8, wherein said pheromone responsive promoter is selected from the group consisting of the <u>BAR1</u> gene promoter and the <u>FUS1</u> gene promoter, and wherein said indicator gene is selected from the group consisting of the <u>HIS3</u> gene and the <u>LacZ</u> gene.

10.-28. (Cancelled)

- 29. (Previously Presented) A transformed yeast cell according to claim 1, wherein said heterologous G protein coupled receptor and said heterologous G protein α subunit operatively associate and activate an endogenous yeast signal transduction pathway.
- 30. (Previously Presented) A transformed yeast cell according to claim 29, wherein said endogenous yeast signal transduction pathway is a yeast pheromone response pathway.